



MAY 11-12, 2015 | SANTA CLARA, CA

CLOUD FOUNDRY
SUMMIT



Forget about scripting...

- » by
- » The Cloud Foundry Command Line Interface team

Agenda

- » CLI Team
- » Problem
- » Use cases
- » Demo
- » Plugin Architecture
- » Future work





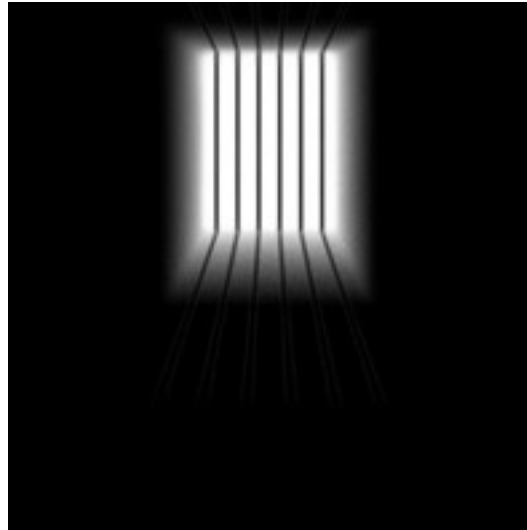
Who are we?

Greg Oehmen, Pivotal, Product Manager

Simon Leung, IBM, CLI Team Anchor

Jonathan Berkhahn, IBM, CLI Software Engineer

What problem are we trying to solve?



<http://nycaic.org/>

What problem are we trying to solve?

- » Command Line Extensibility
- » Core Command Behavior Emulation
- » Distribution is Natively Internal to the Interface

A look back...

CF CLI Plugin MVP

ID 1329086 Close

Stories with this label become part of this epic

LINKED LABEL plugins

ADD/VIEW STORIES 32 stories

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Updated: 4 Sep 2014, 2:56pm

DESCRIPTION [\(edit\)](#)

GOALS for MVP

1. Satisfy community desire to extend CLI
2. Want to maintain CLI team's ability to extend CLI code ourselves
3. Shippable MVP for Nov 1
4. 1 Week incremental delivery of value
5. Plugin should not break CLI

SCOPE (The Four Things)

1. Execute via `cf <thing>`
2. Incorporated into core CF help
3. Plugin command can invoke an existing CLI command
4. Plugin command can take ARGS and -flags



Plugin Use Cases

- » Public Uses; Private Uses
- » Extend CLI command set via existing API
- » Extend CLI beyond API

Example Plugins

- » Ephemeral plugins
 - Diego-Beta
 - CF App Stack Changer
- » Novel Functionality
 - CLI Recorder
 - Open



Demo



CLI Plugin Help

- » Plugin commands listed in ``cf help``
- » Show plugin command usage with ``-h``



CLI Plugin Usage

- » Invoke Plugin commands as native commands



Distributing Plugins

» Plugin Binary: ``cf install-plugin {binary_file}``



Distributing Plugins

- » Plugin Binary: ``cf install-plugin {binary_file}``
- » Url to binary
 - » example: ``cf install-plugin http://my-site/sample-binary``



CLI Plugin Repository (CLIPR)

<https://github.com/cloudfoundry-incubator/cli-plugin-repo>

» CLI interacts with CLIPR directly



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- » CLI interacts with CLIPR directly
- » Ready to use (standalone / CF ready)



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- » CLI interacts with CLIPR directly
- » Ready to use (standalone / CF ready)
- » Architecture reference

What is a CLI plugin?

- » Plugins are written in Go lang.
- » Cross-compiled binaries
- » Single executable file

Plugin Roadmap





Closing up

